
FOLIO

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1980

Muttart Foundation donates blood analyser

The Gladys and Merrill Muttart Foundation has donated \$49,000 to the Faculty of Medicine to purchase an automated biochemical analyser for samples of blood. This Micro Centrifugal Fast Analyzer is a commercial version of an instrument originally designed for the United States of America Skylab program. It can perform a wide variety of chemical tests on samples of blood plasma or other fluids as small as three microlitres. It allows researchers to test biochemical functions economically and very accurately and is invaluable

when dealing with small animals such as mice or rats, which have only limited amounts of blood available for chemical tests. The instrument is being installed in the Surgical-Medical Research Institute and its services will become available to biomedical researchers throughout the University. During the past year the Muttart Foundation has also supported research in the Institute on the preservation and transplantation of pancreatic islet cells, and it is expected that this will lead to improved methods for treating diabetes. □

Students' Union Sponsors Refugees

According to a news release issued by The University of Alberta Students' Union on 18 December 1979, new faces have arrived on campus: three Indo-Chinese refugees were due to arrive in Edmonton yesterday, 2 January.

"We were not expecting them quite so soon," said Tema Frank (VP External). The Students' Union Refugee Committee had not expected the refugees until late January. With the earlier arrival, however, there is an urgent need for donations of clothing, kitchen equipment and utensils, and furniture from the campus community.

The three refugees who arrived yesterday are a twenty-one years old woman, a sixteen years old girl, and a twenty-four years old man. These three family members have a sister who is already resident in Edmonton. "We were very happy at this opportunity to re-unite the family," said Tema Frank.

Donations of clothing, furniture, and other household items may be deposited with the receptionist at St. Joseph's College, at the corner of 114 Street and 89 Avenue. They should be labelled "Students' Union Refugee Committee."

For further information, please contact Tema Frank, Vice-President (External Affairs), 259 Students' Union Building, telephone 432-4236. □

Building Services and the Christmas Spirit

Building service workers across campus turned up trumps in December with the preparation of Christmas hampers for needy families in Edmonton. The people most daytime employees of the University never see, those who keep our buildings clean and operating, our floors and windows spic and span, made a concerted effort to assist less fortunate families celebrate Christmas.

Christmas card signed by all the employees within the particular sub-division of Building Services that donated funds for the hamper. Nor were the hampers inexpensive. Depending on the size of the families to receive them, some hampers cost in excess of \$100.

Moreover, it should be noted that the spirit of selflessness that was demonstrated by building service workers itself stimulated



Loading the Christmas hampers prior to delivery

Within the Building Services division of the Department of Physical Plant there are thirteen "main areas" served, in addition to an administrative unit and a "general crew." This campus-wide division raised enough money for the preparation of fourteen Christmas hampers. These hampers were then distributed to needy families whose names were provided by the Christmas Bureau of Edmonton. Included in each hamper, supplied to families of varying size—in one family there were eight children—there was a

further generosity on the part of others. One employee, for example, mentioned the preparation of Christmas hampers to his family while at dinner. His four children, in the late teens and early twenties, were so impressed with the idea that they also solicited donations for yet another hamper.

On behalf of all members of the University community, *Folio* applauds the generosity of our colleagues and co-workers. It is good to know that people care. □

FOLIO

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All inquiries and correspondence should be directed to:

Folio
Office of Community Relations
423 Athabasca Hall
University of Alberta
Edmonton, Alberta T6G 2E8
Telephone: (403) 432-2325

The Office of Community Relations produces Folio on a weekly basis for the staff and other interested persons

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colloquy

Let me write as a member of the Garneau Community League Planning Committee to say that, contrary to Dr. Kernahan's remarks in "Colloquy" on 13 December, our community is delighted with the University's stand on LRT. If the University maintains its policy, the University's neighbors to the east will be grateful and this will represent a considerable step forward in community relations.

Having attended Mr. Phillips' presentation at the LRT hearings, let me assure Dr. Kernahan that it was low-key to the point of being almost inaudible and far from "a monstrous outburst of ill-informed opinion."

A look at the proposed construction schedule for the LRT shows that a spur to the University terminating in front of the Dental-Pharmacy building will be, for a considerable length of time, the only LRT station south of the river. Naturally this will attract extra traffic into the University. Of course, one purpose of the LRT is to reduce traffic and indeed traffic downtown probably will be reduced. But this is not the kind of community service the University is designed for.

I agree though that a surface LRT will result in better disciplined vehicular and pedestrian traffic here. The knowledge that if you don't pay attention, you'll get run over by a train should "concentrate the mind wonderfully."

The extra cost of putting the line underground is not \$47.6 million. That is the extra cost of putting the line underground all the way from the High Level Bridge to the University Farm. The City's senior traffic planning engineer has estimated the extra cost at \$30 million. That estimate, however, takes a most optimistic view of the costs of constructing the at grade LRT and results in a line which would be considerably more hazardous and difficult to operate than the underground route.

The University may indeed be serving both its neighbors, future LRT riders and the City at large by insisting on an underground route through the Campus. As a City taxpayer, I'll be interested to find out. As a Provincial taxpayer, I'll be much more involved as the Province has picked up a very large proportion of the LRT construction costs so far. An underground LRT with its substantially lower operating costs would be an appropriate inheritance for the Edmonton taxpayer and a splendid anniversary gift from the Province.

D.M. Cruden
Associate Professor of Civil Engineering

Health Sciences Audiovisual Library: New Programs

In November 1979, the following programs were acquired by the Health Sciences Audiovisual Library. All are located in, and owned by, the AV Library at 2-54 Medical Sciences Building (UAHSAVE), unless otherwise stated.

A-165: "Understanding Heart Sounds and Murmurs."*

A-166: "How to Organize a Course."*

A-167: "Relation of Nursing Theory to Curriculum

Development."*

ST-344: "Learning Resources Series: Defense Mechanisms of the Respiratory Tract."

ST-345A: "Seizure Disorders: Diagnosis."

ST-345B: "Seizure Disorders: Clinical Management."

ST-346: "Human Sexuality Series: Viewpoint: Nurse and Homosexuality." (Originally FT-173)

CM-357: "Physical Diagnosis: The Neck." □

*Faculty of Nursing

Apologies

Every couple of months or so *Folio* makes mistakes. This week, we wish to apologize for the embarrassment we have caused I.A. Campbell, Chairman of the Department of Geography. When Dr. Campbell steps down as head of department next June he will not, as we stated in *Folio* for 13 December 1979, take a sabbatical leave prior to returning to teaching. Moreover, he is not planning to conduct research work with the provincial Department of the Environment.

Also, we would like to apologize to Ian Newhouse and Frank Van Doorn, both students in the Faculty of Physical Education and Recreation, for omitting their names from the list of 1979 Alberta Achievement Award recipients in the 13 December 1979 *Folio*.

Ian Newhouse received the

Premier's Award in the Performance category for taking first place in the 400m hurdles at the National Senior Outdoor Track and Field Championships held at Sherbrooke, PQ, in July.

Mr. Newhouse was also a member of the Canadian team at the Pan American Games, in addition to attending the World Student Games in the summer of 1979.

Frank Van Doorn also won the Premier's Award in the Performance Category. He came first in the 200m event, the 4 x 200m relay, and the 4 x 400m relay at the National Senior Indoor Track and Field Championships held at Edmonton in February 1979.

Both Mr. Newhouse and Mr. Van Doorn are coached by Ken Porter, a Sessional Lecturer in the Faculty of Physical Education and Recreation. □

Centre for Medical and Dental Technology

A Centre for Medical and Dental Technology has been established in the Faculty of Engineering. The Centre will be housed in the Faculty Office and will function under the direction of Dr. C.E. Capjack, who will be the

Coordinator.

The Centre has been established to serve as a contact point for the Faculty of Engineering with those who have an interest in developing technology related to medical or dental uses. It is

hoped that the Centre will provide increased access to engineering resources within the Faculty for members of the medical or dental communities and members of the University community wishing to interact in the development of new

or improved devices and techniques.

Additional information can be obtained by calling Dr. C.E. Capjack (432-5398). □

research reporter

Alberta Engineer Investigates Stability of Castle Slopes

Stan Thomson is back into the routine of teaching at the University, but now the Professor of Civil Engineering can draw upon some rather different first-hand experience when instructing his students.

Previously, Dr. Thomson had a wealth of experience gained in Canada's North, including participation in the construction of the Alaska Highway, from which to draw examples to illustrate his lectures. Now his illustrations might make reference to medieval castles.

This more recent experience actually came about in a "left-handed" way, explains Dr. Thomson. Having a sabbatical leave available and interested in increasing his knowledge of engineering geology as it pertains to civil engineering, he approached the man from whom he thought he could learn the most, Dr. J.B. Burland. The head of the geotechnics division within the Building Research Establishment of Britain's Department of the Environment was enthusiastic about Dr. Thomson's spending time with him so when the 1978-79 academic year began, the Alberta engineer headed for England.

At about the same time, a sister division within the Department of the Environment approached the BRE for assistance: was there an engineer available to check the stability of slopes associated with some castle sites? Because the BRE could provide an engineer on a part-time basis only, Dr. Burland asked Dr. Thomson if he was interested in helping. He was.

The project took Dr. Thomson

to various parts of England. In Essex, work previously done regarding the characteristics of London Clay was brought together and applied to improve the stability of the slope atop which sits Hadleigh Castle.

At Bolsover in the Midlands, he investigated the unfortunate situation of an impressive baronial mansion. The structure, boasting 17th Century oak panelling and frescoed ceilings, sits on a slope affected by coal mining operations beneath it. Had the mining continued the slope may have failed and seriously damaged the castle. Fortunately, mining operations have moved to more remote parts of the coal seams and the castle foundation needs only to be strengthened and restoration of the mansion can continue. Dr. Thomson says that mining subsidence is a widespread problem in parts of England.

On the North Sea coast, Scarborough Castle occupies the former site of an ancient Roman signal station. It sits 80 metres above the sea atop near-perpendicular cliffs, and there was concern about continued erosion from the sea. However, the site proved quite secure, says Dr. Thomson, and simple measures were recommended to further improve the cliff stability.

Lastly, Dr. Thomson helped with the preliminary investigation at Tintagel, the legendary home of King Arthur. From a geological engineering viewpoint this castle was the most interesting. It was also the most precariously situated, located more than thirty metres above the sea on a tiny island of faulted, folded and thrust rock penetrated by Merlin's Cave and battered by waves arriving unbroken from the open Atlantic. Dr. Thomson says that only a sea wall will provide lasting security.

The Alberta engineer rounded out his time in Britain with visits to a variety of other Department of the Environment projects with geological engineering involvement, and came back very favorably impressed with the work being done and with the willingness to spend money on preservation. He also delivered

four lectures at Imperial College in London, focussing on work being done in Alberta related to such things as landslides, glaciation, and permafrost engineering.

Economics of Canadian Broadcasting Examined

Across the nation from sea to sea, in board rooms and in living rooms, the state of Canadian broadcasting is discussed, its shortcomings detailed, and remedies suggested. The popularity of the topic seems to arise from a widespread dissatisfaction and concern with the current state of broadcasting in Canada.

Evidence of this is provided by the recent strong pressure for the appointment of a Royal Commission to examine broadcasting. The concerns seem to be numerous and include the role of the CBC, the effectiveness of Canadian content regulations, the audience fragmentation effect of cable, and the regulatory role of the CRTC.

This discussion, however, has largely taken place without a thorough examination and understanding of the economics of the television, radio, and cable industries. A recently completed study at The University of Alberta attempts to fill this void. Stuart McFadyen and Colin Hoskins of the Faculty of Business Administration and Commerce and David Gillen of the Department of Economics, examine the current state of ownership and cross-ownership in the television, radio, and cable-television industries in Canada. They consider the effects of ownership and cross-ownership upon industry conduct and behavior and on various measures of industry performance including profitability, audience size, and program quality.

More specifically, the study examines and attempts to answer the following questions: What are the current ownership patterns, both at the local market and national levels, in the television, radio, and cable-television industries? What are the effects of ownership and cross-ownership on the conduct of firms in areas such as pricing and programming?

What effects do the ownership patterns have on various performance measures such as profitability, audience size, and program choice and diversity? Thus the study is concerned with what makes the television, radio, and cable industries behave as they do.

The study was funded under the University Research Grants Program and the federal Department of Communications. This link with the Department of Communications enabled the researchers to gain access to the financial data provided by companies for individual television, radio, and cable operations, and subject the data to analysis that permitted meaningful results to be obtained while respecting the confidentiality of the individual financial returns. This is the first study of Canadian broadcasting to make use of the individual financial returns in this way. And the link with the department also made it possible to obtain CRTC programming data which facilitated a more exhaustive examination of programming than has ever been undertaken in Canada before.

The study shows that there are two concepts central to an economic understanding of the industry: the "product" of the television and radio industries is not programs but audience exposures to advertising messages—the programs are in actuality the packaging which includes consumption of the advertising messages—and, secondly, private broadcasters desire profits as large as possible—profit maximization is the motive power of the industry.

The professors do not pretend that these are outstanding revelations. Profit maximization is, after all, the driving force of the entire marketplace in a free economy. But, they stress that the two points are no less important for that, and when attempts are made to move the industry in any other direction, those factors provide an inertial force of great significance.

A good case in point is the imposition of Canadian content quotas for television broadcasting.

Because American light entertainment programming attracts large audiences, thereby permitting a high advertising rate, and is available at a cost lower than similar original Canadian production, Canadian broadcasters opt to broadcast it. When Canadian content quotas are imposed, the private broadcasters attempt to satisfy the quota at minimal sacrifice to their profits. Thus many Canadian programs tend to appear early and late in the evening and on summer evenings leaving the peak mid-evening winter time slots free for US light entertainment programs. In addition Canadian programming is often of the inexpensive quiz show variety.

The work done by Professors McFadyen, Hoskins, and Gillen also shows that Canadian broadcasters can realize an excellent return on their money. They found an average rate of return of 32.2 percent for television broadcasting and 18 percent for radio, whereas a typical return in most other industries would be about 13 percent. Corporations which had more than one television outlet were in an even better position, having returns as high as 45 percent—which likely explains the trend to group ownership which the researchers identify. The study also reveals that the degree of competition in the individual market is a key determinant of the advertising rates that can be charged and the profits that can be made. For example, in a market with only one television station that station was able to charge \$250 for a 30-second spot rate whereas a similar station in a competitive market could charge only \$75.

Now that the study has been completed, methods of modifying the industry to direct it toward any given objectives can be discussed with a much better idea of their possible success.

Additional Nitrogen Research Said to be Urgently Needed

The possible breakdown of the ozone layer, keeping our water pure, the depletion of fossil fuels, deterioration of our land

resources, feeding the earth's multitudes—with these pressing problems facing mankind, one might be tempted to collar a scientist like W.B. McGill and ask him if he and his colleagues have nothing better to do than sit around discussing something esoteric like nitrogen cycles.

However, the answer to that question might prove embarrassing—and not for Dr. McGill. Those concerns are precisely the reasons that the Chairman of the Soil Science department at the University is intent upon gaining a precise understanding of the movement of nitrogen between atmosphere, soil, plants, and animals.

Without nitrogen in the soil plants will not grow, nor could animals live without nitrogen derived from plants for nitrogen is one of the important elements in all proteins—the “building blocks” which form plant and animal tissue.

In a recurring cycle, plants wrest nitrogen from the soil so they might grow; they then die and decay or are eaten by animals which in turn die and decay. The industry of tiny microbes working upon the decaying organic matter, be it from the plant or animal kingdom, returns the nitrogen to its mineral form, available to support new plant growth.

Should there be interference with this cycle—for instance, insufficient organic matter being returned—the nitrogen may be depleted and the soil will not sustain hearty plant growth. Dr. McGill stresses that our ability to grow the food needed to feed the population of the earth is directly related to the availability of nitrogen.

The nitrogen content of the soil can, of course, be boosted by chemical fertilizers, but those are energy expensive; a great deal of fossil fuel is used in the transformation of the gaseous nitrogen which makes up four-fifths of the atmosphere into a mineral form. And over-fertilizing and other poor land management practices can result in nitrogen leaking from the cycle, polluting nearby

water or entering the atmosphere as nitrogen oxides dangerous to the fragile ozone layer, which protects the earth from excess solar radiation.

For these reasons, ecologists, agrologists, and biochemists were recently brought together in Sweden to discuss problems concerning nitrogen. A statement prepared by scientists at that meeting declares, in part, that “more information is urgently required on the behavior of nitrogen in soils, plants, animals and the atmosphere in different regions of the world to help show how to maximize the efficient use of nitrogen in agriculture, forestry and natural ecosystems and how to best use land.” A later communiqué attaches the same urgency to this as to the search for a cure for cancer or a solution to the energy crisis.

Dr. McGill was one of three Canadians at that meeting. He says that emphasis is being given to fitting together the various pieces which will give the global picture for the cycling of nitrogen. Work he has done cooperatively with other Canadian and US researchers has resulted in a satisfactory model of the cycle in a grassland system. Other groups have contributed other pieces. However, Dr. McGill says that many pieces are still missing. The cycle in some land-use systems is yet to be illuminated, and much remains to be learned about the controls on the process, he says. □

people

Garry Smith of the Department of Physical Education recently presented a paper entitled “The Use of the Case Study Method as a Teaching Device in Coaching

Developmental Programs” at the International Seminar on the Art and Science of Coaching in Tel Aviv, Israel, 17-24 December.

David C. Johnson of the Department of History recently attended the II Congreso de Historia in Cali, Colombia, where he gave a paper entitled “Colombians in the Nineteenth Century Venezuelan Coffee Boom” and was commentator for a session entitled “Estructuras Sociales del Valle del Cauca a mitad del Siglo XIX.”

L.C. Green, University Professor, Department of Political Science, delivered a paper on “War Law” at the United States Naval War College in Rhode Island, on 26 November.

Norman Page, Professor of English, has been appointed a Visiting Fellow at the University of Leicester for 1979-80. He recently presented a paper to the University of Leicester Victorian Studies Group.

Joseph R. Royce Director, Centre for Advanced Study in Theoretical Psychology, attended the 8th International Conference on the Unity of the Sciences, on the topic The Responsibility of the Academic Community in the Search for Absolute Values, held in Los Angeles, 23-25 November.

Karol Krotki, Professor of Sociology, presented a paper on northern languages and ethnicity to the Northern Population Workshop II held at the Arctic Institute of North America, McGill University, Montreal.

The Lieutenant Governor-in-Council has appointed Christopher Gordon-Craig of Edmonton, to membership of the Alberta Library Board.

Christopher Gordon-Craig was educated at the University of Auckland, New Zealand (BA, MA), and the University of New Brunswick (PhD). He is also a Licentiate of Trinity College, London, England. He has been a member of the University of Alberta Faculty of Library Science Council and was the founding Editor (1972-77) of the Newsletter of the Victorian Studies Association of Western Canada.

He is, at present, Associate Professor of English at The University of Alberta, and Dean of Residence at St. Joseph's College.

The Alberta Library Board advises the Minister with respect to matters relating to the expansion, development, coordination and encouragement of libraries in the Province.

Christopher Gordon-Craig replaces Carole Compton-Smith. His term expires in May 1980.

coming events

Music

Department of Music Explorations VIII

14 January. 8 p.m. "An Evening of Mozart." Convocation Hall.

Provincial Museum

6 January. 2 p.m. Croatian Folklore Group.

Exhibitions

University Art Gallery and Museum

Continuing. "Paper Tigers."

Continuing. "One Man's Mountains." An exhibit of photographs by Joe Weiss.

University Special Collections

Until 4 January. "Follies and Fashions of our Grandfathers." B37, Cameron Library.

Edmonton Art Gallery

Until 6 January. "Bryan Chubb." Continuing. "Pictures of a Floating World."

Edmonton Public Library

7 January. "Carl Gustav Jung." Featured in the Foyer Gallery of the Centennial Library.

Alberta Culture

Continuing. "Rails of the World." An exhibit by Canadian naturalist J. Fenwick Lansdowne.

Films

SUB Theatre

8 January. 7 p.m.

"La Dolce Vita." (France/Italy 1960). Starring Marcello Mastroianni.

10 January. "Shall We Dance." Starring Fred Astair and Ginger Rogers.

Edmonton Public Library

12 January. 10:30 a.m. "Smallest Elephant in the World," "Lend A Paw," "Hardware Wars," and "Cricket in Times Square." Free admission. Performance in Centennial Library Theatre.

National Film Theatre

2, 3, 4 January. 7:30 and 9:15 p.m.

6 January. 8 p.m. "Preparez Vos Mouchoirs."

9 January. 7:30 p.m. "Thunder Over Mexico."

9 January. 8:45 p.m. "Time In the Sun."

10 January. 7:30 and 9:30 p.m.

13 January. 8 p.m. "The Adventures of Barry McKenzie."

11 January. 7:30 and 9:00 p.m. "Alvin Purple."

16 January. 7:30 p.m. "Paissa/Paisan."

Provincial Museum

4 January. 2 p.m. "Polar Bear,"

"Cheetah," and "Silent Safari." Free admission.

5 January. 2 p.m. "Big Red."

Free admission.

6 January. 4 and 7 p.m. "African Adventure." Free admission.

Lectures and Seminars

Faculty of Extension

26 January. 1 p.m. to 5 p.m.

"Fitness Happening." \$25 couples, \$15 singles. Telephone 432-3033 for information.

Department of Physics

8 January. 3:30 p.m. Dr. D.G. Hughes will speak on "Nuclear Quadrupole Interactions in Crystalline Solids." V128.

Department of Economics

9 January. 3 p.m. Professor Sam Wilson will talk about "Equalization Payment: Efficiency and Stability." 8-22 Tory Building.

Department of Slavic Languages

3, 7, 8, and 10 January. 4 p.m. Professor Kazimierz Dabrowski of the Polish Academy of Sciences and the Institute of Mental Hygiene and Child Psychiatry in Warsaw will speak on "Selected Problems of Creativity with particular reference to Mental Disturbance." 226 Arts Building.

Department of Classics

10 January. 4 p.m. Lowell Eckert will talk about "The Date and Place of Jesus' Birth." 1-8 Humanities Centre.

Paul Kane House

9 January. 12 noon. The City's planning department will present their "Alternative Solutions in Oliver." 10220 121 Street.

Department of Entomology

10 January. 4:30 p.m. Eric Maw will talk about "Factors influencing the Effects of Phytophagous Insects on Host Populations—Implications for the use of *Aphthona* spp. as Spurge Control Agents." 62 Athabasca Hall.

Department of English

10 January. 4 p.m. G. Kelly will speak on "Situation, Revelation, Transformation: A History of the Story-Forms of Eighteenth-Century Fictions." Boardroom, 5-20 Humanities.

Department of Botany

9 January. 4 p.m. Dr. Doug Whitfield will talk about "Bald Eagle Nest Trees." M-149 Biological Sciences.

Department of Biochemistry

7 January. 4 p.m. Dr. Alexander

R. MacLeod, MRC Laboratories in Cambridge, England, will present a seminar on "Characterization of the mRNA and protein products of the *unc-54* myosin heavy chain gene of *c. elegans*." 2-27 Medical Sciences Building.

Faculty of Home Economics

9 January. 12 noon. Dr. Dianne Kieren will speak on "Relationship Commitment—What Does It Mean?" Brown Bag Seminar. 814 General Services Building.

Dentistry Lecture

7 January. 2 p.m.

"Problems and concepts concerning the control of gross form in bones and teeth," with speaker Maurice McKeown of the University of Saskatchewan. 4069 Dentistry/Pharmacy Centre.

Intercollegiate Sports

Hockey

5 January. University of Calgary
9 January. University of Calgary.

Theatre

The Citadel Theatre

The Rice Theatre
Continuing. "Christmas In The Market Place." \$3.50 adults, \$2 children.

The Shoctor Theatre

Until 6 January. "The Trials of Oscar Wilde."

Northern Light Theatre

Until 13 January. "Side by Side by Sondheim."

Radio

3 January. 7 p.m. Voiceprint: *The Oriental Character: Writing and Printing in the Far East*. This week, Voiceprint examines the word as it emerged with the invention of writing, paper and print-making in the Far East. Guests include: Dr. Brian Evans, Dr. Derek Wilson and Dr. Roderick Morgan. CKUA (580 AM/95 FM)

4 January. 7 p.m. *Legal Maze: Philosophy of Law—Part III.* This week, Legal Maze examines the philosophies of law which grew out of the "Positivist" school and gained prominence in the twentieth century. Guests included Dick Dunlop, Richard Goreham, and David Bai, Professor of Anthropology. CKUA (580 AM/95 FM)

5 January. 7 p.m. *University Concert Hall: Dal Verna Trio.* Violin, oboe and piano selections. Interviews with members of the Trio will also be included. CKUA (580 AM/95 FM)

6 January. 8 a.m. *Idealog: The Space Race.* This week, Idealog presents a recap of the space race to date, with a look to the future. Guests include Dr. Dan Middlemiss, Strategic Studies. CKXM (100.3 FM)

service information

Non-Credit Courses

Faith and Modern Culture
This course, offered by St. Stephen's College (88 Avenue and 112 Street), will explore the forces of faith at work in modern culture through artistic expression in films, books, and art. The course may be taken for credit #612. The fee is \$70 in addition to a registration fee of \$5. For further information, please telephone 439-7311.

Notices

Cultural Assistance Awards

Alberta Culture invites applications to its 1980 Cultural Assistance Awards Program. Any Alberta artist or arts administrator participating in dance, drama, music, creative writing or visual arts may apply under the program for financial assistance to improve qualifications or skills.

Cultural Assistance Awards offer the individual an opportunity to pursue studies at local, provincial, national or international institutions and universities or take independent studies under established artists.

All applicants are evaluated by an independent adjudication board comprised of professionals in the artist's own discipline. In some cases interviews or auditions are arranged prior to final decisions.

Alberta Culture offers Cultural Assistance Awards annually to successful applicants, amounts from \$50 to \$1,000.

Deadlines for receipt of performing arts applications for the 1980 program are: dance, drama, and music—15 February 1980; creative writing—1 April 1980; visual arts—15 February 1980.

Application forms and further information are available from: Alberta Culture Cultural Assistance Awards 11th Floor, CN Tower 10004 104 Avenue Edmonton, Alberta T5J 0K5

Ski Instructors and Volunteers

The ACT Recreation Centre will be offering cross-country ski lessons this winter to disabled persons. Volunteers are needed to instruct and assist in this program. Your help would allow disabled adults and children the opportunity to participate in a new activity.

For further information telephone 428-7901.

GFC Ad Hoc Committee on Service Courses

The Nominating Committee is seeking nominations to fill a vacancy for a member of the academic staff to serve on the above committee. Would those who have nominations or who are interested in serving on the ad hoc Committee on Service Courses please contact the Secretary of the Nominating Committee, 2-1 University Hall, telephone 432-4715. It would be appreciated if a brief vita could accompany any nomination.

Booster Service

Booster service will be provided to holders of University parking permits who encounter battery trouble while parking on campus. This service will be available from 3 p.m. to 6 p.m. weekdays when the temperature drops to -23 degrees Celsius (-10 degrees Fahrenheit) or colder. For service, telephone 432-4855.

Noon-hour French

Want to brush up on your spoken French? Try the noon-hour conversation French class being offered by the Faculty of Extension. This course is meant for those who are reasonably familiar with the grammar and reasonably confident in simple conversation. It is designed primarily for the

University community and will use a small-group format with a qualified instructor as a resource person. Each Tuesday and Friday from noon to 1 p.m., 29 January to 2 May 1980. Fee: \$45. For further information telephone 432-3033.

Surplus Equipment

Wanted: 1 - 6 - 10 Drawer Cardex System. Telephone Dr. Ingles Secondary Education 432-2582.

Positions Vacant

On-Campus

Nursing Program Instructor

Applications are being accepted for the above position. The Nurse Practitioner Program is funded by the Federal Government and based at The University of Alberta. The major responsibility of the position is teaching history taking and physical assessment plus clinical supervision in pediatrics and emergency, monitoring of lectures, preparation and marking of assignments and exams.

Essential requirements: Graduate of a Nurse Practitioner Program; Nursing Station Experience; a BScN degree preferred; Experience in Pediatrics and Emergency.

This appointment will commence as soon as possible. Salary negotiable. Send Curriculum Vitae to:

Nursing Director
Nurse Practitioner Program
3-103 Clinical Sciences Building
University of Alberta
Edmonton, Alberta

Department Chairman

Applications are invited for the position of Chairman in the Department of Physical Therapy, Faculty of Rehabilitation Medicine at The University of Alberta, Edmonton, Alberta, Canada. The Chairman has the responsibility for administration, teaching and participation in research in the undergraduate and graduate programs. Preference will be given to applicants with demonstrated performance in research and administration.

Qualification in Physical Therapy and a graduate degree are pre-requisites.

Position to commence 1 July 1980. Closing date for applications 1 March 1980.

Applications, curriculum vitae, and the names of three referees should be submitted to:
Acting Dean, B.B. Fifield (Mrs.)
Faculty of Rehabilitation Medicine
316 Corbett Hall
University of Alberta
Edmonton, Alberta,
Canada T6G 2G4

The University of Alberta is an equal opportunity employer.

Non-Academic Positions

To obtain further information on the following positions, please contact Personnel Services and Staff Relations, third floor, SUB, telephone 432-5201. Please do not contact the department directly. Positions available as of 21 December 1979.

Duplicating Operator I (\$764.41-\$883.20)—Law

Clerk Typist II (\$764.41-\$912.91)—Surgical-Medical Research Institute; Housing and Food Services; Zoology; Provincial Laboratory

Clerk Steno II (\$793.02-\$949.20)—Secondary Education; Entomology; Boreal Institute

Dental Assistant I (part-time) (\$475.80-\$569.52)—Dental Clinical Sciences

Dental Records Clerk (Term) (\$822.72-\$984.39)—Dentistry

Senior Clerk (\$822.72-\$984.72)—Campus Security

Clerk Typist III (\$849.11-\$1,021.79)—Pharmacy; Administrative Services (2 positions); Purchasing/Buying

Clerk Typist III (part-time, trust, term) (\$5.00/hour)—Student Affairs

Data Entry Operator I (\$849.11-\$1,021.79)—Computing Services

Data Entry Operator I/II (\$849.11-\$1,109.78)—Computing Services

Clerk Steno III (\$883.20-\$1,065.78)—Botany (Term); Geology; Economics;

English; Philosophy; Secretariat; Education; Psychology; Mineral Engineering; Provincial Laboratory; University Occupational Health, Safety and Fire

Clerk Steno III/Secretary (\$883.20-\$1,205.47)—Continuing Medical Education

Programmable Typewriter Operator II (\$883.20-\$1,065.78)—Civil Engineering

Admission Records Trainee/Coordinator (\$883.20-\$1,109.78)—Office of the Registrar

Accounts Clerk (\$912.91-\$1,109.78)—Office of the Comptroller

Medical Steno (\$949.20-\$1,158.17)—Medicine (2 positions); Pediatrics; Psychiatry

Secretary (\$984.39-\$1,205.47)—Secretariat; Business Administration and Commerce; Dentistry—Oral Biology

Administrative Clerk (\$984.39-\$1,205.47)—Geology; Housing and Food Services (2 positions)

Department Secretary (trust, term) (\$912.91-\$1,109.78)—Physics

Laboratory Assistant II (\$793.02-\$949.20) Provincial Laboratory (2 positions)

Computer Assistant II (\$912.91-\$1,109.78)—Computing Services

Technician I (part-time, trust) (\$492.40-\$604.74)—Pharmacy and Pharmaceutical Sciences

Audio Visual Technician I (\$984.39-\$1,205.47)—Education Curriculum Laboratory

Vehicle Pool Partsman (\$1,065.78-\$1,311.06)—Physical Plant

Audio and Video Technician I/II (\$1,065.78-\$1,489.25)—Radio and Television; Audiovisual Media Centre

Publication Assistant II (\$1,109.78-\$1,367.16)—Computing Services

Security Officer I (\$1,109.78-\$1,367.16)
 —Campus Security
 Chemical Technologist I (\$1,109.78-\$1,367.16)—Home Economics
 Technologist I (\$1,109.78-\$1,367.16)—Surgery; Zoology (trust, term)
 Technician II (\$1,109.78-\$1,367.16)—Oral Biology
 Electronics Technician II (\$1,205.47-\$1,489.25)—Electrical Engineering
 Accounting Assistant (Audit) (\$1,257.17-\$1,556.33)—Internal Audit
 Administrative Assistant (\$1,257.17-\$1,556.33)—Office of the Registrar
 Typographical Tradesman III (\$1,311.06-\$1,623.42)—Printing Services
 Programmer/Analyst II (Trust) (\$1,367.16-\$1,697.12)—R.S. McLaughlin
 Examinations and Research Centre
 Programmer/Analyst II/III (\$1,367.16-\$2,021.59)—Administrative Systems; Computing Services.
 Technician IV (\$1,427.65-\$1,771.92)
 —Mineral Engineering; Plant Science
 Biology Technologist III/IV (\$1,427.65-\$2,021.59)—Genetics
 Machinist Technician III (\$1,489.25-\$1,850.00)—Technical Services
 Electronics Technician IV (\$1,556.33-\$1,934.69)—Language Laboratories
 Programmer/Analyst III (\$1,623.42-\$2,021.59)—Administrative Systems; Chemical Engineering

Off-Campus

The President

Mount Royal College

The President is accountable to the Board of Governors for the overall academic integrity of the College and for the sound, effective management of its human, financial and physical resources.

Founded in 1910, Mount Royal College is Alberta's largest community college. The College has a faculty and staff of over 500 people, and its student body consists of approximately 3,500 students enrolled in full time programs; 3,000 enrolled in programs offered by its Conservatory of Music; and 15,000 taking part in its Continuing Education programs.

Applications for the position of President should be accompanied by a full résumé and submitted to: Edward P. Schmidt, Secretary Board of Governors Mount Royal College 4825 Richard Road S.W. Calgary, Alberta T3E 6K6

Executive Director

The Association of Universities and Colleges of Canada, the national organization serving Canada's degree-granting institutions, is currently seeking an Executive Director to direct and administer the activities of the Association. In addition to acting as a "voice" nationally and internationally, the Association provides a broad range of information and research services for its members and serves as a centre for organizations and individuals requiring information

concerning higher education in Canada. The Association has the largest library of its type in Canada and publishes "University Affairs" and the "Directory of Universities."

The Executive Director, who must be both a leader and a catalyst, will exhibit the skills of administrator, educator and diplomat. Candidates should, ideally, have the ability to communicate in both English and French and be willing to travel on behalf of the Association, nationally and internationally. The remuneration package for this Ottawa-based position includes a salary which will be of interest to senior administrators. The Association is prepared to cover relocation expenses of the successful candidate.

Nominations and/or applications should be accompanied by a curriculum vitae and will be treated in complete confidence. Please direct enquiries or correspondence to R.E. McMonagle, Stevenson & Kellogg, 2300 Yonge Street, Toronto, Ontario M4P 1G2.

Daycare Observers

Observers for daycare research needed, 4-6 hours a week for six weeks. Good wages. Call 432-5428 or 432-4273. Leave name and phone number.

Advertisements

must reach the Editor by 3 p.m. on the Thursday prior to publication, which date also serves as the deadline for cancellation of advertisements. The cost of placing advertisements is 20 cents per word for the first week and 10 cents per word for subsequent weeks ordered before the next deadline. Advertisements must be paid for in advance, and are accepted at the discretion of the Editor. We regret that no advertisements can be taken over the telephone. For order forms or further information, telephone 432-2325.

Accommodations available

For rent—Belgravia. 3-4 bedrooms, trees, two fireplaces, two-car garage, five minutes to University. Partially furnished or unfurnished. Rent negotiable. Available 1 January. 434-1255.

For sale—By owner. Petrolia. Three bedroom bungalow. Fireplace, developed basement, mature landscaping, double garage. Two appliances and drapes. \$89,000. Phone 435-3150 after 6 p.m.

For rent—Garneau, unfurnished main floor, cosy, two bedroom home. Quiet residential area, two blocks University, Safeway, bus. Garage. \$480. 435-2904.

For sale—Close to University. Attractively decorated 1,300 sq. ft. home with fully developed basement including 2nd full bath. Four bedrooms plus den, excellent updating and condition, located on large well treed lot. Asking \$105,000. Call Liz Crockford. 436-5250, 434-0555. Eva Kopecka 436-5250, 437-5603. Spencer Real Estate.

For sale—Ravine lot with custom designed home. Call Liz Crockford 434-0555, 436-5250. Spencer Real Estate Ltd.

For sale—Charming, three bedroom bungalow. Belgravia. Fireplace. Developed basement. Large first mortgage, low rate. Must be sold. \$79,900. 433-7207.

For sale—Five bedroom semi-bungalow near University. Hardwood floors, big trees, excellent financing arranged. 433-7207.

For sale—Garneau. 10921 81 Avenue, 1,350 sq. ft., semi-bungalow. Two large bedrooms upstairs. Spacious living and dining rooms. Beautiful garden with mature trees. Assumable \$65,000 mortgage at 11%. Asking \$88,000. 439-2948.

For rent or sale—Three bedroom Blue Quill condominium. Two bathrooms, four appliances, carpet throughout, twenty minutes to university, partially furnished. Available 10 February. \$489 monthly. Randy 432-5285 day, 437-2807 night.

For rent—Spacious three bedroom bungalow, two additional bedrooms in finished basement, and double car garage in North Windsor Park. Available 10 January - 30 June 1980. 432-3903 days, 434-2596 evenings.

Accommodations wanted

Needed immediately, two bedroom apartment/townhouse for visiting professor in library science. Prefer close to campus. Furnished or unfurnished. Teenage child, one pet. Phone 432-4578 or 433-5962.

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Goods for sale

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Yoga for better health: Keep-fit yoga group offers classes Wednesday evenings at University. Twelve weeks, starts 23 January. Fee \$30. Full-time University students \$20. Registration 16 January, 6:30-8 p.m., room 9, floor 14, Tory Building. Enquiries to Box 184, University Post Office.

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